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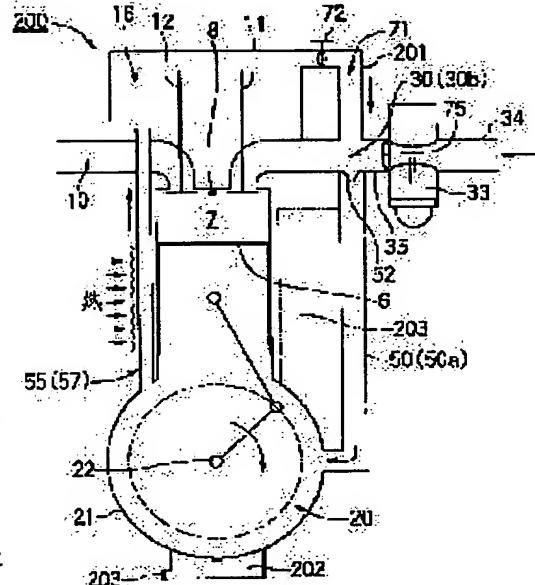
(21)Application number : 11-333930 (71)Applicant : KIORITZ CORP
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(54) FOUR-CYCLE INTERNAL COMBUSTION ENGINE

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a 4-cycle internal combustion engine suppressing the quantity of lubricating oil introduced to a combustion chamber accompanying the fuel on the assumption of employing the 4-cycle internal combustion engine using mixed fuel including lubricating oil.

SOLUTION: A part of the fuel-air mixture of a downstream side suction air passage 30b is introduced to the crank chamber 20 via a branch suction passage 50a in a compression stroke and an exhaust stroke, the fuel-air mixture flowing down in the crank chamber 20 enters a valve system chamber 16 in an expansion stroke and a suction stroke, refluxed to a suction port 9 through a reflux channel 71 in the suction stroke, and finally fills the combustion chamber 7. The fuel-air mixture is separated into lubricating oil components and gasoline components in a process passing through a first communication passage 55 communicated from the crank chamber 20 to the valve system chamber 16 by vaporizing the gasoline components relatively easily vaporized by the heat of a cylinder block 3.



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